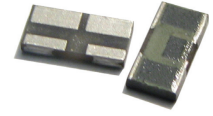


DIMENSIONS & POWER RATING

| Part | Length x Width | Height | 5dB ΔT of 50°C | 5dB ΔT of 100°C | 20dB ΔT of 50°C | 20dB ΔT of 100°C |
|----------|-----------------|-------------|-------------------|--------------------|--------------------|---------------------|
| VGX-2010 | 0.197" x 0.097" | 0.035" Max. | 45W | 90W | 35W | 70W |
| VGX-2512 | 0.248" x 0.125" | 0.035" Max. | 105W | 210W | 65W | 125W |
| VGX-3725 | 0.375" x 0.250" | 0.035" Max. | 175W | 350W | 180W | 360W |
| VDX-2010 | 0.197" x 0.097" | 0.020" Max. | 80W | 155W | 60W | 120W |
| VDX-2512 | 0.248" x 0.125" | 0.020" Max. | 175W | 345W | 105W | 205W |
| VDX-3725 | 0.375" x 0.250" | 0.020" Max. | 290W | 590W | 300W | 600W |



Attenuation Accuracy

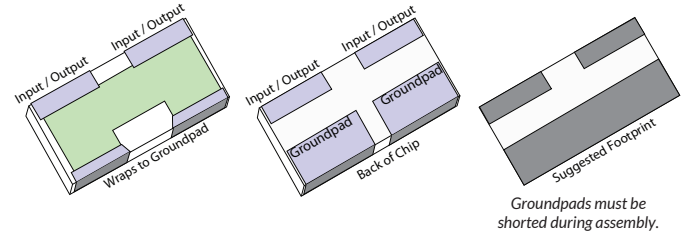
| Increment | Accuracy |
|-------------|-----------|
| < 3dB | +/- 0.2dB |
| 3.5 - 13dB | +/- 0.3dB |
| 13.5 - 30dB | +/- 0.5dB |

| ITEM | SPECIFICATION |
|--|---|
| Value Range: | 0dB, 1dB to 30dB |
| Standard Impedance: | 50Ω Nominal |
| VSWR (Max)-G 0.025 ¹ | 2010 - 1.4:1 up to 6.5GHz 2512 - 1.6:1 up to 3.7GHz 3725 - 1.6:1 up to 1.5GHz |
| VSWR (Max)-D 0.0151 <i>(Simulated pending final test)</i> | 2010 - 1.4:1 up to 4.0GHz 2512 - 1.6:1 up to 1.7GHz 3725 - 1.6:1 up to 1.0GHz |
| DC Attenuation Stability: ² | .001 dB/ dB/ °C |
| Operating Temperature: ³ | -55°C to 150°C |
| Architecture: | Thick Film on Aluminum Nitride |
| Attachment: | Solder and Epoxy |

1. Mounted in a matched continuous, 50Ω microstrip system. 2. Based on TCR and resistor tolerance at DC.
3. Based on a max power, max film temp. of 150°C and baseplate temp. of 100°C.
Consult the factory for other impedances, values, substrate thicknesses, sizes or power levels.

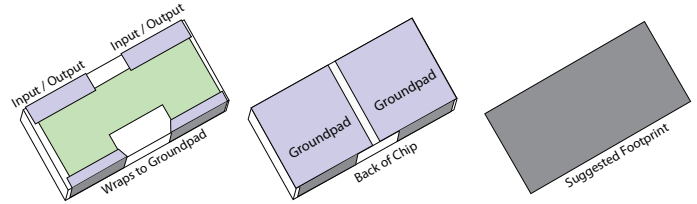
Terminal Styles

WA - Full Wraparound



Groundpads must be shorted during assembly.

SG - Single Wrap to Ground



Groundpads must be shorted during assembly.

ORDERING INFORMATION

Prefix for AIN attenuators

Substrate Thickness
D - 0.015" G - 0.025"

Termination Material

- ✓ -3 PtAg
- ✓ -7 Au over PtAu (input) PtAu (ground)
- ✓ -8 PtAg ULR
- C PtAg w/ Sn62 Solder
- H PtAg w/ Sn62 Solder ULR
- ✓ -R PtAg w/ Sn96 Solder ULR

dB Value
ex: 03D5=3.5dB
Half dB available 1-17 dB range
ex: 14D0=14.0dB
Whole dB available 0-30dB range

Termination Style
WA - Wraparound
SG - Single Wrap to Ground

Part
2010 2512 3725

Example Part Number: VG 3 - 2010 WA 02D0

Packaging: B=Bulk, T=Tape and Reel, W=Waffle
RoHS Compliant = ✓
ULR = Ultra Leach Resistant